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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Hsu, et al.

Serial No.: 10/792,069

Confirmation No.: Unknown

Filed: March 3, 2004

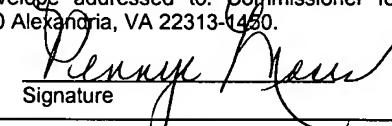
For: Integrated Multi-Step Gap  
Fill and All Feature  
Planarization for  
Conductive Materials

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§ Group Art Unit: Unknown

§ Examiner: Unknown

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING 37 CFR 1.8	
I hereby certify that this correspondence is being deposited on June 14, 2004 with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.	
6-14-04 Date	 Signature

Dear Sir:

### INFORMATION DISCLOSURE STATEMENT

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

Applicants certify that all references submitted with this disclosure were first cited in a communication from a foreign patent office dated April 15, 2004, which communication is enclosed, not more than three months prior to the filing of this Information Disclosure Statement.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/APPM/5614.D1/BTP.

Respectfully submitted,

  
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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

12

Application Number	10/792,069
Filing Date	March 3, 2004
First Named Inventor	Hsu, et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	AMAT/5614.D1/CMP/CMP/RKK

Submission Date

June 14, 2004

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
A1	A1	US-6,693,036	02/17/04	Nogami, et al.	
	A2	US-6,679,929	01/20/04	Asano, et al.	
	A3	US-6,679,928	01/20/04	Costas, et al.	
	A4	US-6,676,484	01/13/04	Chopra	
	A5	US-6,630,059	10/07/03	Uzoh, et al.	
	A6	US-6,620,215	09/16/03	Li, et al.	
	A7	US-6,616,976	09/09/03	Montano, et al	
	A8	US-6,605,537	08/12/03	Brian, et al.	
	A9	US-6,602,112	08/05/03	Tran, et al.	
	A10	US-6,596,638	07/22/03	Kondo, et al.	
	A11	US-6,593,239	07/15/03	Kaufman, et al.	
	A12	US-6,585,579	07/01/03	Jensen, et al.	
	A13	US-6,572,463	06/03/03	Xu, et al.	
	A14	US-6,569,004	05/27/03	Pham	
	A15	US-6,565,619	05/20/03	Asano, et al.	
	A16	US-6,562,719	05/13/03	Kondo, et al.	
	A17	US-6,561,889	05/13/03	Xu, et al.	
	A18	US-6,555,158	04/29/03	Yoshio, et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
B1	B1	WO 03/060962	07/24/03	Applied Materials, Inc.		
B2	B2	WO 02/064314	08/22/02	Speedfam-IPEC Corp.		
B3	B3	WO 02/075804	09/26/02	Applied Materials, Inc.		
B4	B4	WO 02/88229	11/07/02	Dow Global Tech., Inc.		
B5	B5	WO 02/23616	03/21/02	ACM Research, Inc.		

Examiner

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2	of	12	Submission Date	June 14, 2004
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## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
A1	US-6,551,935		04/22/03	Sinha, et al.	
A2	US-6,551,179		04/22/03	Halley	
A3	US-6,520,843		02/18/03	Halley	
A4	US-6,517,426		02/11/03	Lee	
A5	US-6,508,952		01/21/03	Lee, et al.	
A6	US-6,497,800		12/24/02	Talieh, et al.	
A7	US-6,482,307		11/19/02	Ashjagee, et al.	
A8	US-6,475,332		11/05/02	Boyd, et al.	
A9	US-6,471,847		10/29/02	Talieh, et al.	
A10	US-6,455,479		09/24/02	Sahbari	
A11	US-6,454,819		09/24/02	Yano, et al.	
A12	US-6,447,371		09/10/02	Brusic-Kaufman, et al.	
A13	US-6,440,295		08/27/02	Wang	
A14	US-6,440,186		08/27/02	Sakai, et al.	
A15	US-6,429,133		08/06/02	Chopra	
A16	US-6,428,721		08/06/02	Ina, et al.	
A17	US-6,428,394		08/06/02	Mooring, et al.	
A18	US-6,419,554		07/16/02	Chopra	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
B1	WO 01/13416		02/22/01	Nutool, Inc.		
B2	WO 01/49452		07/12/01	Advanced Micro Devices, Inc.		
B3	WO 01/52307		07/19/01	Nutool, Inc.		
B4	WO 01/63018		08/30/01	Nutool, Inc.		
B5	WO 01/71066		09/27/01	Nutool, Inc.		

Examiner

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PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of

12

Application Number

10/792,069

Filing Date

March 3, 2004

First Named Inventor

Hsu, et al.

Group Art Unit

Unknown

Examiner Name

Unknown

Attorney Docket Number

AMAT/5614.D1/CMP/CMP/RKK

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		Number-Kind Code <sup>2</sup> (if known)			
A1		US-6,416,685	07/09/02	Zhang, et al.	
A2		US-6,409,904	06/25/02	Uzoh, et al.	
A3		US-6,406,363	06/18/02	Xu, et al.	
A4		US-6,402,591	06/11/02	Thornton	
A5		US-6,395,152	05/28/02	Wang	
A6		US-6,391,166	05/21/02	Wang	
A7		US-6,386,956	05/14/02	Sato	
A8		US-6,381,169	04/30/02	Bocian, et al.	
A9		US-6,375,693	04/23/02	Cote, et al.	
A10		US-6,368,184	04/09/02	Beckage	
A11		US-6,355,153	03/12/02	Uzoh, et al.	
A12		US-6,355,075	03/12/02	Ina, et al.	
A13		US-6,354,916	03/12/02	Uzoh, et al.	
A14		US-6,348,076	02/19/02	Canaperi, et al.	
A15		US-6,331,135	12/18/01	Sabde, et al.	
A16		US-6,328,872	12/04/01	Newton, et al.	
A17		US-6,328,335	12/11/01	Pant, et al.	
A18		US-6,315,883	11/13/01	Mayer, et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
B1		WO 01/88954	11/22/01	Nutool, Inc.		
B2		WO 00/77278	12/21/00	CVC Products, Inc.		
B3		WO 00/59682	10/12/00	Nutool, Inc.		
B4		WO 00/55876	02/03/00	Koninklijke Phillips Elec., N.V.		
B5		WO 00/33356	06/08/00	ACM Research, Inc.		

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Substitute for form 1449A/PTO				Application Number	10/792,069
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Filing Date	March 3, 2004
(Use as many sheets as necessary)				First Named Inventor	Hsu, et al.
				Group Art Unit	Unknown
				Examiner Name	Unknown
				Attorney Docket Number	AMAT/5614.D1/CMP/CMP/RKK
Sheet	4	of	12	Submission Date	June 14, 2004

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		Number-Kind Code <sup>2</sup> (if known)			
A1		US-6,315,803	11/13/01	Ina, et al.	
A2		US-6,310,019	10/30/01	Kakizawa, et al.	
A3		US-6,303,551	10/16/01	Li, et al.	
A4		US-6,303,049	10/16/01	Lee, et al.	
A5		US-6,297,159	10/02/01	Paton	
A6		US-6,276,996	08/21/01	Chopra	
A7		US-6,273,798	08/14/01	Berman	
A8		US-6,273,786	08/14/01	Chopra, et al.	
A9		US-6,261,959	07/17/01	Travis, et al.	
A10		US-6,261,168	07/17/01	Jensen, et al.	
A11		US-6,258,721	07/10/01	Li, et al.	
A12		US-6,258,711	07/10/01	Laursen	
A13		US-6,251,235	06/26/01	Talieh, et al.	
A14		US-6,248,222	06/19/01	Wang	
A15		US-6,244,935	06/12/01	Birang, et al.	
A16		US-6,238,592	05/29/01	Wang	
A17		US-6,238,271	05/29/01	Cesna	
A18		US-6,234,870	05/22/01	Uzoh, et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
B1		WO 00/26443	05/11/00	Nutool, Inc.		
B2		WO 00/03426	01/20/00	ACM Research, Inc.		
B3		WO 99/41434	08/19/99	ACM Research, Inc.		
B4		WO 99/46081	09/16/99	Strasbaugh		
B5		WO 99/53119	10/21/99	ACM Research, Inc.		

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Application Number	10/792,069
Filing Date	March 3, 2004
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A1	US-6,218,305		04/17/01	Hosali, et al.	
A2	US-6,217,416		04/17/01	Kaufman, et al.	
A3	US-6,210,257		04/03/01	Carlson	
A4	US-6,206,756		03/27/01	Chopra, et al.	
A5	US-6,194,317		02/27/01	Kaisaki, et al.	
A6	US-6,190,237		02/20/01	Huyng, et al.	
A7	US-6,177,026		01/23/01	Wang, et al.	
A8	US-6,176,992		01/23/01	Talieh	
A9	US-6,171,467		01/09/01	Weihs, et al.	
A10	US-6,171,352		01/09/01	Lee, et al	
A11	US-6,159,079		12/12/00	Zuniga, et al.	
A12	US-6,156,124		12/05/00	Tobin	
A13	US-6,153,043		11/28/00	Edelstein, et al.	
A14	US-6,143,656		11/07/00	Yang, et al.	
A15	US-6,143,155		11/07/00	Adams, et al.	
A16	US-6,126,853		10/13/00	Kaufman, et al.	
A17	US-6,117,853		09/12/00	Sakai, et al.	
A18	US-6,117,783		09/12/00	Kondo, et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
B1	WO 99/53532		10/21/99	Ferro Corporation		
B2	WO 99/65072		12/16/99	Speedfam-IPEC Corp.		
B3	WO 98/04646		02/05/98	EKC Technology, Inc.		
B4	WO 98/49723		11/05/98	Minnesota Mining Co.		
B5	JP 2001-77117		02/17/04	Sony Corp.		

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Submission Date

June 14, 2004

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
A1	US-6,117,775		09/12/00	Kondo, et al.	
A2	US-6,116,998		09/12/00	Damgaard, et al.	
A3	US-6,106,728		09/12/00	Kondo, et al.	
A4	US-6,103,096		08/15/00	Datta, et al.	
A5	US-6,096,652		08/01/00	Watts, et al.	
A6	US-6,090,239		07/18/00	Liu, et al.	
A7	US-6,083,840		07/04/00	Mravic, et al.	
A8	US-6,077,412		06/20/00	Ting, et al.	
A9	US-6,066,030		05/23/00	Uzoh	
A10	US-6,063,306		05/16/00	Kaufmann, et al.	
A11	US-6,056,864		05/02/00	Cheung	
A12	US-6,056,851		05/02/00	Hsieh, et al.	
A13	US-6,033,293		03/07/00	Crevasse, et al.	
A14	US-6,024,630		02/15/00	Shendon, et al.	
A15	US-6,020,264		02/01/00	Lustig, et al.	
A16	US-6,017,265		01/25/00	Cook, et al.	
A17	US-6,010,964		01/04/00	Glass	
A18	US-6,004,880		12/21/99	Liu, et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
B1	JP 11042554		02/16/99	NEC Corp		
B2	SU 1618538		01/07/91	Rredriyiatie R Yia A		
B3	EP 0 846 742		06/10/98	Cabot Corp.		
B4	EP 0 811 665		12/10/97	Cabot Corp.		
B5	EP 1 368 826		12/10/03	Applied Materials, Inc.		

Examiner

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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Application Number

10/792,069

Filing Date

March 3, 2004

First Named Inventor

Hsu, et al.

Group Art Unit

Unknown

Examiner Name

Unknown

Attorney Docket Number

AMAT/5614.D1/CMP/CMP/RKK

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A1		US-6,001,730	12/14/99	Farkas, et al.	
A2		US-6,001,008	12/14/99	Fujimori, et al.	
A3		US-5,954,997	09/21/99	Kaufman, et al.	
A4		US-5,938,801	08/17/99	Robinson	
A5		US-5,911,619	06/15/99	Uzoh, et al.	
A6		US-5,897,375	04/27/99	Watts, et al.	
A7		US-5,893,796	04/13/99	Birang, et al.	
A8		US-5,886,031	03/23/99	Carprio, et al.	
A9		US-5,880,003	03/09/99	Hayashi	
A10		US-5,871,392	02/16/99	Meikle, et al.	
A11		US-5,846,882	12/08/98	Birang	
A12		US-5,846,862	12/08/98	May, et al.	
A13		US-5,807,165	09/15/98	Uzoh, et al.	
A14		US-5,804,507	09/08/98	Perlov, et al.	
A15		US-5,783,489	07/21/98	Kaufman, et al.	
A16		US-5,770-095	06/23/98	Sasaki, et al.	
A17		US-5,624,300	04/29/97	Kishii, et al.	
A18		US-5,578,362	11/26/96	Reinhardt, et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
B1		EP 0 325 753	08/02/89	IBM Corp.		
B2		EP 1 170 761	01/09/02	Nippon Chemi-Con Corp.		
B3		EP 0 455 455	11/06/91	AT&T Corp.		
B4		EP 1 103 346	05/30/01	Applied Materials, Inc.		
B5		EP 0 527 537	02/17/93	FMC Corp.		

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(Use as many sheets as necessary)

Application Number	10/792,069
Filing Date	March 3, 2004
First Named Inventor	Hsu, et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	AMAT/5614.D1/CMP/CMP/RKK
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of	12
Submission Date	June 14, 2004

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		Number-Kind Code <sup>2</sup> (if known)			
A1	US-5,575,706		11/19/96	Tsai, et al.	
A2	US-5,567,300		10/22/96	Datta, et al.	
A3	US-5,567,200		10/22/96	Swartzendruber	
A4	US-5,543,032		08/06/96	Datta, et al.	
A5	US-5,534,106		07/09/96	Cote, et al.	
A6	US-5,391,258		02/21/95	Brandacaleoni, et al.	
A7	US-5,340,370		08/23/94	Cadien, et al.	
A8	US-5,257,478		11/02/93	Hyde	
A9	US-5,256,565		10/26/93	Bernhardt, et al.	
A10	US-5,225,034		07/06/93	Yu, et al.	
A11	US-5,217,586		06/08/93	Datta, et al.	
A12	US-5,209,816		05/11/93	Yu, et al.	
A13	US-5,136,817		08/11/92	Tabata, et al.	
A14	US-5,129,981		07/14/92	Wang, et al.	
A15	US-5,114,548		05/19/92	Rhoades	
A16	US-5,096,550		03/17/92	Mayer, et al.	
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Group Art Unit	Unknown
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A1		US-4,992,135	02/12/91	Doan	
A2		US-4,954,141	09/04/90	Takiyama, et al.	
A3		US-4,934,102	12/27/88	Kaunta, et al.	
A4		US-4,839,005	06/13/89	Katsumoto, et al.	
A5		US-4,793,895	12/27/88	Kaanta, et al.	
A6		US-4,713,149	12/15/87	Hoshino	
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A8		US-4,663,005	05/05/87	Edson	
A9		US-4,263,113	04/21/81	Bernard	
A10		US-4,125,444	11/14/78	Inoue	
A11		US-3,873,512	03/25/75	Latanision	
A12		US-3,448,023	06/03/69	Bell	
A13		US-3,239,441	03/08/66	Marosi	
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A15		US-2,582,020	01/08/52	Emery	
A16		US-2003/0170091	09/11/03	Shomler, et al.	
A17		US-2003/0153184	08/14/03	Wang, et al.	
A18		US-2003/0136055	07/24/03	Li, et al.	

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First Named Inventor

Hsu, et al.

Group Art Unit

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Examiner Name

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A1		US-2003/0119311	06/26/03	Basol, et al.	
A2		US-2003/0116445	06/26/03	Sun, et al.	
A3		US-2003/0114004	06/19/03	Sato, et al.	
A4		US-2003/0113996	06/19/03	Nogami, et al.	
A5		US-2003/0104762	06/05/03	Sato, et al.	
A6		US-2003/0083215	05/01/03	Kakizawa, et al.	
A7		US-2003/0079416	05/01/03	Ma, et al.,	
A8		US-2003/0073386	04/17/03	Ma, et al.	
A9		US-2002/0160698	10/31/02	Sato	
A10		US-2002/0139055	10/03/02	Asano, et al.	
A11		US-2002/0130634	09/19/02	Ziemkowski, et al.	
A12		US-2002/0119286	08/29/02	Chen, et al.	
A13		US-2002/0108861	08/15/02	Emesh, et al.	
A14		US-2002/0096659	07/25/02	Sakai, et al.	
A15		US-2002/0088715	07/11/02	Talieh, et al.	
A16		US-2002/0088709	07/11/02	Hongo, et al.	
A17		US-2002/0077037	06/20/02	Tietz	
A18		US-2002/0074230	06/20/02	Sato, et al.	

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Hsu, et al.

Group Art Unit

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Examiner Name

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	A1	US-2002/0072309	06/13/02	Sato, et al.	
	A2	US-2002/0070126	06/13/02	Sato, et al.	
	A3	US-2002/0040100	04/04/02	Kume, et al.	
	A4	US-2002/0020621	02/21/02	Uzoh, et al.	
	A5	US-2002/0011417	01/31/02	Talieh, et al.	
	A6	US-2002/0008036	01/24/02	Wang	
	A7	US-2001/0042690	11/21/01	Talieh, et al.	
	A8	US-2001/0040100	11/15/01	Wang	
	A9	US-2001/0036746	11/01/01	Sato, et al.	
	A10	US-2001/0035354	11/01/01	Ashjaee, et al.	
	A11	US-2001/0024878	09/27/01	Nakamura	
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	A13				
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	A15				
	A16				
	A17				
	A18				

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June 14, 2004

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	1	Annex to Form PCT/ISA/206, dated April 15, 2004, for PCT/US01/46449	
	2	Nogami, "An Innovation to Integrate Porous Low-K Materials and Copper," <u>InterConnect Japan 2001</u> , Honeywell Seminar (Dec. 6, 2001) pp. 1-12	
	3	Landolt, "Fundamental Aspects of Electropolishing," Mar. 18, 1996 pp. 1-11	
	4	Contolini, et al., "Electrochemical Planarization of ULSI Copper," <u>Solid State Technology</u> , June 1997, pp. 155-160	

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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